

S/537/61/000/045/001/001
A004/A101

Small-size АФА - МИИГАИК

duration of cycle - 0.7 sec; positioning range on the drift angle - $\pm 360^\circ$; angle of inclination of the optical axis - $\pm 10^\circ$; power input without heating - up to 5 amp; idem with heating - up to 10 amp; flight weight - 5 kg; overall dimensions - 340 x 320 x 150 mm. The АФА-МИИГАИК camera is fitted with a miniature super wide-angle lens and central inter-lens shutter of the band type as described by the author and N. P. Zakasnov [Ref. 3: Tsentral'nyye aerofotozatrory lentochnogo tipa (Central Aerial Camera Shutters of the Bank Type). Trudy MIIGA1K. No. 39. 1960]. The camera can be easily placed in the serial hatch of the ЯК-12 and АН-2 (YaK-12 and AN-2) aircrafts. Parts of the magazine and drive mechanism of the АФА-39 (АФА-39) camera are used in the АФА-МИИГАИК design. Laboratory and flight tests of the camera proved that it has a resolving power which permits an enlargement of aerial photographs by a factor of 3 without noticeable blurring. The photogrammetric distortion within the range of a 51.5 x 51.5 mm frame does not exceed 0.03 m, which means the photos for mapping purposes can be taken. To investigate the alignment quality of the film the "reflection" method was used [Ref. 1: Arzhanov, Ye. P. Metod kombinirovannogo kontrolya vyravnivaniya aeroplenki (Method of Combined Alignment Checking of Aerial Films). Dissertation. MIIGA1K. Moscow. Ed. 1958]. The film deviated from the plane by 0.03 mm only. The sagging of the film which amounted

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Small-size АФА - МИИГАиК

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to 0.4 - 0.5 mm without vacuum can be eliminated at a vacuum of 10 - 20 mm water column. A fully dependable alignment is attained at 150 mm. Flight tests of the АФА-МИИГАиК camera were carried out on the AN-2 aircraft, the flight altitude ranging from hedge hopping to 4,000 m. At a speed of 180 km/hour aerial photos with a longitudinal overlapping of 60% from an altitude of 40 m were obtained. At an exposure of 1/200 sec. the geometric shift of the picture does not exceed 0.16 mm. It is suggested to reduce the overall dimensions of aerial cameras to 250 x 250 x 150 mm, cut their weight to 2 - 3 kg and develop interchangeable magazines with a film reserve of up to 30 m. There are 1 figure and 3 Soviet-bloc references.

ASSOCIATION: Kafedra aerofotos'yemki (Department of Aerial Photographic Survey)

Card 3/3

RUDIONOV, B.N., dotsent, kand.tekhn.nauk

Stroboscopic collimating sighting device. Trudy MIIGAIK no.39:31-34
'60. (MIRA 13:8)

1. Kafedra aerofotos"yemki Moskovskogo instituta inzhenerov geodezii,
aerofotos"yemki i kartografii.
(Aerial photogrammetry)

RODIONOV, B.N., dotsent, kand.tekhn.nauk; ZAKAZNOV, N.P., dotsent,
kand.tekhn.nauk

Central band type shutters for aerial photographic cameras. Trudy
MIIGAIK no.39:15-24 '60. (MIRA 13:8)

1. Kafedra aerofotos"yemki Moskovskogo instituta inzhenerov geodezii,
aerofotos"yemki i kartografii.
(Shutter, Photographic)

RODIONOV, B.N., dotsent, kand.tekhn.nauk; YERKHOV, V.I., dotsent, kand.
tekhn.nauk

Computing device for automatic direction of the airplane on a new
flight line in aerial photographic surveying. Trudy MIIGAIK no.39:25-
30 '60. (MIRA 13:8)

1. Kafedra aerofotos"yemki Moskovskogo instituta inzhenerov geodezii,
aerofotos"yemki i kartografii.
(Aerial photogrammetry)
(Instrument flying)

RODIONOV, B.S., dotsent

Analysis of the utilization effectiveness of the regulation of rivers
for primary floating. Trudy STI 31:3-14 '61.

Technology of the free floating of larch lumber. Ibid.:41-48
(MIRA 17:3)

ACCESSION NR: AP4042551

S/0056/64/046/006/1953/1959

AUTHORS: Dolgoshein, B. A.; Luchkov, B. I.; Rodionov, B. U.

TITLE: Streamer chamber

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 6, 1964, 1953-1959

TOPIC TAGS: particle counter, particle detector, spark discharge chamber, charged particle trajectory, cosmic ray measurement

ABSTRACT: The authors describe in detail the construction and mechanism of operation of a new type of gas discharge track chamber, the development of which was stimulated by the unsatisfactory operation of the commonly used multilayer spark or discharge chamber. The new streamer chamber possesses all the advantages of a spark chamber (rapid action, simplicity of construction and of auxiliary high-voltage techniques, possibility of constructing chambers of large dimensions, etc.) and at the same time records with good resolution the

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ACCESSION NR: AP4042551

spatial picture of any event occurring in the chamber volume, and presents a picture of the charged particles in the chamber irrespective of their direction of motion. A detailed description of the chamber design and the auxiliary equipment is given elsewhere (PTE, in press). The mechanism of formation of the particle tracks is discussed and results of experimental investigations of various characteristics of the chamber are presented. The effect of different gas media and gas pressures was also studied. The results show that the brightness and structure of the track depend on the direction of particle trajectory relative to the electric field in the chamber. Furthermore, particle tracks in the chamber are not very bright and are rather wide in the electric-field direction, which impairs the spatial resolution. The advantages of the streamer chamber over the spark chamber are evident in such important parameters as dead time and the possibility of measuring the ionizing ability of the particles. The streamer chamber can also be very useful for the study of processes related to the physics of gas discharge such as streamer velocity, electron shower

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ACCESSION NR: AP4042551

path length, fluctuations in showers, and other discharge characteristics, since the primary electrons that initiate the discharge are accurately localized in the region between electrodes. "The authors thank Professor A. I. Alikhanyan for his interest in the work, Yu. Grashin, S. Somov, V. Chuvilo, and V. Dmitrenko of MIFI, and L. V. Sukhov of FIAN for great help in the work, and also V. Ry*kalin of LYaP OIYaI for supplying the photographic film. Orig. art. has: 6 figures.

ASSOCIATION: Fizicheskii institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences SSSR)

SUBMITTED: 10Dec63

DATE ACQ:

ENCL: 01

SUB CODE: NP

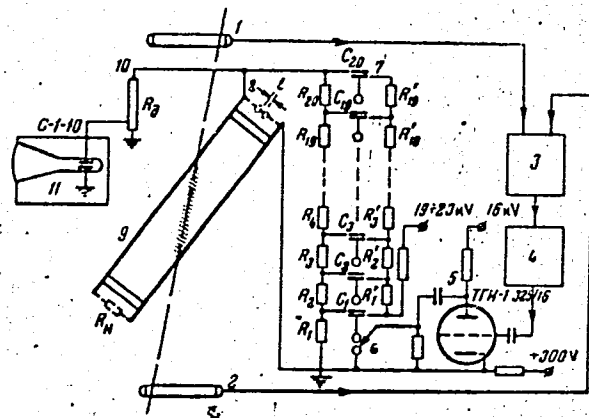
NR REF SOV: 009

OTHER: 007

Card 3/4

ACCESSION NR: AP4042551

ENCLOSURE: 01



Block diagram of experimental setup:

- 1, 2 - rows of GM counters
- 3 - coincidence circuit
- 4 - amplifier and discriminator
- 5 - generator
- 6 - first firing gap of pulse generator
- 7 - pulse generator
- 8 - shunting discharge gap
- 9 - chamber
- 10 - high-voltage divider
- 11 - oscilloscope

Card 4/4

DOLGOV, B.A.; LUCHENOV, B.I.; ROBINOV, B.A.

Streamer chamber. Zhur. eksp. i teor. fiz. 46 no. 6: 1953-1959. 36
164.

1. Fizicheskiy institut imen P.N. Lebedeva AN SSSR.
(MIRA 17:10)

RODIONOV, B.Ye.

In support of developing the cultural life of the city in every way possible. Gor.khoz.Mosk. 35 no.9:39-42 S '61. (MIRA 14:10)

1. Nachal'nik Upravleniya kul'tury Ispolkoma Mossoveta.
(Moscow--Culture)

RODIONOV, B.Ye.

Culture of socialist Moscow. Gpr.khoz.Mosk. 37 no.10:12-15 0 '63.

(MIRA 17:2)

1. Nachal'nik Upravleniya kul'tury Iсполnitel'nogo komiteta Moskovskogo
gorodskogo Soveta deputatov trudyashchikhsya.

RODIONOV, B.Ye.

Institutions serving cultural needs of the capital. Gor.
khoz.Mosk. 34 no.1:15-18 Ja '60. (MIRA 13:5)

1. Nachal'nik Upravleniya kul'tury Mosgorispolkoma.
(Moscow--Auditoriums) (Moscow--Libraries)

RODIONOV, B.Ye.; CHUIKOV, V.L.

Deputies of Moscow City and Regional Councils are active participants in the development of industrial and cultural facilities of the capital. Gor. khos. Mosk. 31 no.2:3-5 P '57. (MLA 10:4)

1. Sekretar' Ispolkoma Moskovskogo Soveta (for Rodionov). 2. Zamestitel' zaveduyushchego organizatsionno-instruktorskim otdelom Ispolkoma Moskovskogo Soveta.

(Moscow--Municipal government) (Moscow--Municipal services)

KOSENKO, B.; ZAYTSEV, K.; RODIONOV, D.; GEL'FAND, Ya.

Automatic control of wet grinding of raw materials.
TSement 26 no.1:5-10 Ja-F '60. (MIRA 13:5)
(Automatic control) (Milling machinery)

RODIONOV, D.A.

Distribution functions of element concentrations in eruptive rocks. Dokl. AN SSSR 141 no.3:719-722 N '61. (MIRA 14:11)

1. Institut mineralogii, geokhimii i kristalloghimii redkikh elementov AN SSSR. Predstavleno akademikom D.S. Korzhinskim.
(Rocks, Igneous) (Geochemistry)

LYAKHOVICH, V.V.; RODIONOV, D.A.

Methodology of studying accessory minerals in igneous rocks.
Trudy Inst. min., geokhim. i kristallokhim. red. elem. no.6:
17-55 '61. (MIRA 15:3)
(Rocks, Igneous) (Mineralogy)

RODIONOV, D.A.

Problem of the comparison of average contents of lognormally distributed ~~elements~~ in rocks. Geokhimiia no.8:732-736 '62. (MIRA 15:9)

1. Institut mineralogii, geokhimii i kristalloghimii redkikh elementov AN SSSR, Moskva.
(Rocks--Analysis) (Geochemistry)

VERSHKOVSKAYA, O.V.; KRASNOVA, V.S.; RODIONOV, D.A.

Distribution of gallium in sphalerites from fluorite-sulfide
deposits. Trudy Inst. min., geokhim. i kristallokhim. red. elem.
no.6:3-8 '61. (MIRA 15:3)
(Soviet Central Asia--Sphalerite) (Gallium)

RODIONOV, D.A.

External checking of the results of analyses in estimating
the reserves of ore deposits. Razved. i okh. nedr. 30
no.5:14-17 My '64. (MIRA 17:10)

1. Institut mineralogii, geokhimi i kristallokhimi redkikh
elementov AN SSSR.

SHARAFOV, Ivan Prokof'yevich; RODIONOV, D.A., red.

[Application of mathematical statistics in geology;
statistical analysis of geological data] Primenenie
matematicheskoi statistiki v geologii; statistiches-
skii analiz geologicheskikh dannykh. Moskva, Nedra,
1965. 259 p. (MIRA 19:1)

(RODIONOV, D A)

31

PHASE I BOOK EXPLOITATION

801/5740

Akademiya nauk SSSR. Institut mineralogi, geokhimi i kristallokhimi redkikh elementov

Voprosy mineralogi, geokhimi i genezisa nestorozhdeniy redkikh elementov (Problems in Mineralogy, Geochemistry, and Deposit Formation of Rare Elements) Moscow, Izd-vo AN SSSR, 1960. 253 p. (Series: Its: Trudy, vyp. 4) Errata printed on the inside of back cover. 2,200 copies printed.

Chief Ed.: K. A. Vlasov, Corresponding Member, Academy of Sciences USSR;
Resp. Ed.: V. V. Iyechovich; Ed. of Publishing House: L. S. Tarasov;
Tech. Ed.: P. S. Kashina.

PURPOSE: This book is intended for geologists, mineralogists, and petrographers.

COVERAGE: This is a collection of 25 articles on the formation, geology, mineralogy, petrography, and geochemistry of deposits of rare elements in Siberia and [Soviet] Central Asia. The distribution and characteristics of rare elements found in these areas as well as some quantitative and qualitative methods of investigating the rocks and minerals in which they are found,

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Problems in Mineralogy (Cont.)

557/5740

or with which they are associated, are discussed. Two articles present an economic investigation of the possibilities of industrial extraction and utilization of selenium, tellurium, and hafnium. No personalities are mentioned. Each article is accompanied by references.

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Problems in Mineralogy (Cont.)

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Zhabin, A. G., G. N. Kukhitdinov, and H. Ye. Kazakova. Paragenetic Associations of Accessory Minerals of Rare Elements in Excocontact Fenitized Micasite Intrusive Rocks of the Vishnevyye Mountains

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AVAILABLE: Library of Congress

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JA/8mm/126
11-14-61

RODIONOV, D.A.; PROKHOROV, Yu.V.; ZOLOTAREV, V.M.

Method of averaged samples in geochemical prospecting. *Geokhimiia*
no.6:747-756 Je '65. (MIRA 18:7)

1. Institute of Mineralogy, Geochemistry and Crystal Chemistry of
Rare Elements, Academy of Sciences, U.S.S.R., Moscow.

RODIONOV, D.A.

Statistical theory of the uniformity of geological aggregates.
Geokhimiia no.4:466-473 Ap '65. (MIRA 18:7)

1. Institut mineralogii, geokhimii i kristalloghimii redkikh
elementov, Moskva.

BYEL, A.A.; RODIONOV, D.A.

Using statistical distribution functions to determine the
foreign matter content in the elimination of reserves.
Bazvad. i okh. nedr. 30 no.11:16-20 N '64. (MIRA 13:4)

1. Institut mineralogii, geokhologii i kristallichimii redkikh
elementov AN SSSR (for Rodionov).

RODIONOV, D.A.

Three-parametric distribution of element contents in rocks.
Geokhimiia no.2:179-184 F '63. (MIRA 16:9)

1. Institute of Mineralogy, Geochemistry and Crystal Chemistry of Rare Elements, Moscow.

RODIONOV, D.A.

Characteristics of the distribution of the arithmetic mean under conditions of the asymmetric distribution of contents. *Geokhimiya* no.7:689-693 J1 '63. (MIRA 16:9)

1. Institut mineralogii, geokhimii i kristalloghimii redkikh elementov, Moskva.

(Geochemical research)

SHATALOV, Ye.T.; KOPTEV-DVORNIKOV, V.S.; RUB, M.G.; RODIONOV, D.A.;
SHIPULIN, F.K.; FAVORSKAYA, M.A

[Criteria of the relationship between mineralization and
igneous activity as applied to the study of ore regions;
basic principles of metallogenetic studies and the plot-
ting of metallogenetic and forecasting maps of ore deposits]
Kriterii svyazi orudneniia s magmatizmom primenitel'no k
izucheniiu rudnykh raionov; osnovnye printsipy metallogeni-
cheskikh issledovani i sostavleniia metallogenicheskikh i
prognoznykh kart rudnykh raionov. Moskva, Nedra, 1965.
292 p. (MIRA 18:4)

LYAKHOVICH, V.V.; ZOLOTAREV, B.P.; RODIONOV, D.A.; SOBOLEV, S.F.

Accessory minerals in granitoids of the Gornyy Altai. Trudy
Inst.min., geokhim.i kristalokhim.red.elem. no.2:144-163 '59.
(MIRA 15:4)
(Altai Mountains--Trace elements)

RODIONOV, D.A.

Use of mathematical statistics for proving certain petrographic
and geochemical conclusions. Sov. geol. 6 no.1:140-144 Ja '63.
(MIRA 16:6)

1. Institut mineralogii, geokhimii i kristalloghimii ~~rodikh~~
elementov AN SSSR.

(Mathematical statistics)

(Petrology)

(Geochemistry)

RODIONOV, D.A.

Form of the functions of the distribution of minerals in
igneous rocks. Trudy Inst. min., geokhim. i kristallokhim. red.
elem. no.6:9-16 '61. (MIRA 15:3)
(Rocks, Igneous) (Minerals)

RODIONOV, D.A.

Estimation of the average content and dispersion of lognormal distribution of components in rocks and ores. Geokhimiia no.7: 629-632 '62. (MIRA 15:7)

1. Institut mineralogii, geokhimii i kristalloghimii redkikh elementov AN SSSR, Moskva.

(Ore deposits)

RODIONOV, D.A.; LYAKHOVICH, V.V.

Statistical study of spatial distribution of accessory mineral concentrations in granites of the El'zhurtu Massif. Dokl. AN SSSR 134 no.5:1177-1180 O '60. (MIRA 13:10)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov Akademii nauk SSSR. Predstavleno akademikom D.S. Korzhinskim. (Baksan Valley--Granite)

RODIONOV, Dmitriy Alekseyevich; PROKHOROV, Yu.V., doktor fiz.-
matem. nauk, prof., otv. red.; AZIZYAN, M.I., red. izd-va;
ZUDINA, V.I., tekhn. red.

[Functions of the distribution of the element and mineral
content in igneous rocks] Funktsii raspredeleniia soder-
zhaniia elementov i mineralov v izverzhennykh gornykh poro-
dakh. Moskva, Izd-vo "Nauka," 1964. 100 p.

(MIRA 17:3)

22(3)

SOV/175-58-6-8/41

AUTHOR: Rodionov, F. Lieutenant, Commander of Tank Platoon

TITLE: One Should Never Fire Mechanically.

PERIODICAL: Tankist, 1958, Nr 6, p 15 (USSR)

ABSTRACT: Often, the gun layers try to do their job in a too-mechanical way -. This is caused by insufficient comprehension of the firing regulations. The author has organized a training ground for training crews in firing missions. It is a miniature range on which all elements in a mission are assembled together. These elements are: distance, target, landmarks, aiming, and variable firing data. By imitating real fire, and by discussing the imaginary results, the crews become familiar with the regulations.

Card 1/1

RODIONOV, F.F. [deceased]

Effect of the chemical composition of reagents on the form acquired
by crystalline precipitates. Trudy OTiPiKhP 9 no.2:169-185 '59.

(MIRA 13:9)

(Crystals)

(Microchemistry)

RODIONOV, F.F.

Boring and grooving jaws of boring unit chucks. Sbor.rats.predl.
vnedr.v proizvod. no.5:11 '60. (MIRA 14:8)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat, Lebyazhinskoye
rudoupravleniye.

(Drilling and boring)

RODIONOV, F. G., jt. au.

Production and control of medium power transformers in the "Elektrozavod" plant, Moscow.
Moskva, Gos. energ. izd-vo, 1932 (Mic 53-522) Collation fo the original: 39 p.

Microfilm AC-115

S/193/60/000/008/009/018
AC04/AC01

AUTHORS: Krasil'nikov, L. A., Rodionov, F. L.

TITLE: A Machine for Fatigue Tests of Wires at High Temperatures

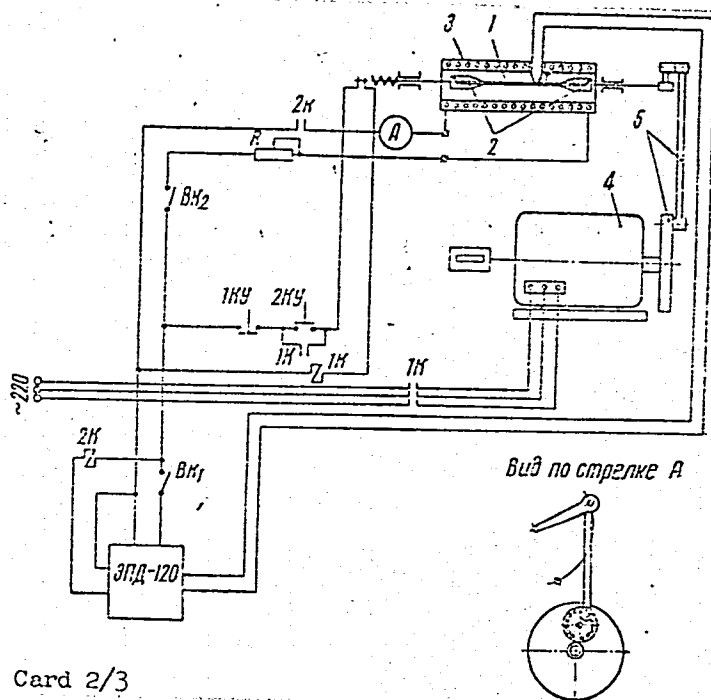
PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 8, pp.31-33

TEXT: The authors point out that information on the life of wires at high temperatures is still rather insufficient, although components like valve springs operate at temperatures in the range of 300-600°C. Therefore the authors developed a machine for the testing of wire fatigue at temperatures of up to 600°C, the machine being built and operated at the Beloretskiy staleprovolочно-kanatnyy zavod (Beloretsk Steel-Wire and Cable Plant). The illustration shows the schematic block diagram of the machine.

Figure:

1 - specimen being tested; 2 - clamping fixtures; 3 - heating furnace; 4 - motor; 5 - lever-eccentric mechanism; ЭПД-120 (EPD-120) - electronic potentiometer.

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A004/A001

A Machine for Fatigue Tests of Wires at High Temperatures

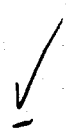
The wire specimen is fastened in the clamping fixtures and is subjected to alternating rotation by a motor through a lever-eccentric mechanism which is located in a hermetically sealed metallic housing with oil. By setting the lever of the mechanism in different holes of the crank disk it is possible to control the magnitude of twist of the specimen being investigated. The angles of rotation of the specimen at any given lever position are

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A004/A001

A Machine for Fatigue Tests of Wires at High Temperatures

preliminarily marked with the aid of a protractor. The load stresses are given by the angles of twist. The machine is equipped with a cylindrical furnace which makes it possible to test specimens at temperatures of up to 600°C. The location of the heating spiral within the furnace ensures a sufficiently uniform distribution of temperature over its whole length. The temperature is checked and controlled by the EPD-120 potentiometer. The testing frequency is 1,500 cycles/minute. The number of cycles is recorded by a counter. There is 1 figure.



Card 3/3

KRASIL'NIKOV, L.A.; RODIONOV, F.L.

Device for measuring stress relaxation in wire. Izv. tekhn. no. 7:
17-18 JI '62. (MIRA 15:6)
(Strains and stresses--Measurement)

S/115/62/000/007/004/008
E194/E455

AUTHORS: Krasil'nikov, L.A., Rodionov, F.L.

TITLE: Equipment for measuring stress relaxation in wire

PERIODICAL: Izmeritel'naya tekhnika, no.7, 1962, 17-18

TEXT: It is important to know the relaxation stability of spring materials under different loading conditions and, particularly in the case of coil springs, the stress relaxation on twisting within various temperature ranges. Accordingly, the Central Laboratory of the Beloretskiy staleprovolochno-kanatnyy zavod (Beloretsk Steel-Wire and Rope Works) has studied this characteristic of spring wires in the temperature range 100 to 600°C, with initial shear stresses up to 100 to 150 kg/mm² using an equipment designed by the author with the cooperation of V.A.Chertousov. The ends of the wire are held by clamps which can rotate. One is loaded and the other is twisted to set up an initial torque in the wire. Deflection is measured by pointer readings and torques are graphically converted to stress for different diameters of wires. When stress relaxation during the test relieves the loaded clamp, contacts apply geared motor drive to the other clamp to maintain Card 1/2

Equipment for measuring ...

S/115/62/000/007/004/008
E194/E455

the loading. The test wire is surrounded by an electrically heated tube. In steel specimens, relaxation increases greatly with temperature. High initial stress is associated with high relaxation. Numerous tests have shown that the rate of relaxation is greatest at the start. For a wire of metastable structure (highly hardened and not tempered), at 500°C, the maximum rate of relaxation at a stress of 100 kg/mm² was 1.78 kg/mm² per sec for the first twenty seconds. The r.m.s. error on a wire of 1.5 mm diameter at temperatures of 200 to 300°C and stress of 40 to 50 kg/mm² was about 1.5%. There are 3 figures. /

Card 2/2

KRASIL'NIK, L.A.; RODIONOV, F.L.

Machine for fatigue tests of wire at high temperatures. Biul.tekh.-
ekon.inform. no.8:31-33 '60. (MIRA 13:9)
(Fatigue testing machines)

ANZIMIROV, Georgiy L'vovich; RODIONOV, Feliks Nikolayevich;
LANINA, L.I., red.; RAKITIN, I.T., tekhn. red.

[Good job; travel notes made on earth, in the air, and on
the ocean] Khoroshaya dolzhnost'; putevye zametki, sdelannye na
zemle, v vozdukh i okeane. Moskva, Izd-vo "Znanie," 1963.
47 p. (Novoe v zhizni, nauke, tekhnike. X Seriya: Molodezhnaya,
no.7) (MIRA 16:5)

(Kamchatka--Description and travel)

RODIONOV, G.A., starshiy nauchnyy sotrudnik (Kiyev, ul. Manuil'skogo,
d.22, kv.1) 2.

Autopsy data on stomach cancer in patients of eight and older.
Klin.khir. no.5:67-68 My '62. (MIRA 16:4)

1. Laboratoriya patomorfologii (zav. - zasluzhennyy deyatel'
nauki, prof. M.K. Dal') Instituta gerontologii i eksperimental'noy
patologii AMN SSSR.

(STOMACH--CANCER)

FUDEL'-OSIPOVA, S.I.; RODIONOV, G.A.

Relation between some physiological and histomorphological changes in the neuromuscular apparatus of animals during aging. Biul. eksp. biol. i med. 56 no.8:50-53 Ag '63.

(MIRA 17:7)

1. Iz laboratorii biologii (zav. - prof. S.I. Fudel'-Osipova) i laboratorii patomorfologii (nauchnyy rukovoditel' - prof. M.K. Dal') Instituta gerontologii i eksperimental'noy patologii (direktor - chlen-korrespondent AMN SSSR prof. D.F. Chebotarev) AMN SSSR. Predstavlena deystvitel'nyy chlenom AMN SSSR N.N. Gorevym.

ARTEM'YEV, A.V., kand.geol.-mineral.nauk; KRUPKIN, L.V., inzh.;
LEBEDEV, N.S., inzh.; RODIONOV, G.A., inzh.

Expediency of using horizontal drainage holes in pits of the
Kursk Magnetic Anomaly. Gor.zhur. no.5:16-19 My '62.
(MIRA 16:1)

1. Nauchno-issledovatel'skiy institut po problemam Kurskoy
magnitnoy anomalii, g. Gubkin.
(Kursk magnetic anomaly--Mine drainage)

RODICHOV, G. A.: Master Med Sci (diss) -- "The absorptive function of the reticulo-endothelium of healthy and ill animals with the use of narcosis and electric-current stimulation (Experimental-morphological investigation)". Chernovtsy, 1959. 19 pp (Min Health Ukr SSR, Chernovtsy State Med Inst), 200 copies (KL, No 13, 1959, 113)

RODIONOV, G.A.

Cholelithiasis in an infant. *Pediatrics* 37 no.10:30-31 0 '59.
(MIRA 13:2)

1. Iz kafedry patologicheskoy anatomii (zaveduyushchiy - prof.
N.M. Shinkerman) Chernovitskogo meditsinskogo instituta (direktor -
dotsent M.M. Kovalev).

(CHOLELITHIASIS in inf. & child.)

RODIONOV, G. A.

RODIONOV, G.A., assistant; ROMAN, L.I., dotsent

Adenocarcinoid of the prostate gland with a metastatic cancerous priapism. Vrach.delo no.8:863 Ag '57. (MIRA 10:8)

1. Kafedra patologicheskoy anatomii (zav. - doktor meditsinskikh nauk N.M.Shinkerman) i kafedra fakul'tetskoy khirurgii (i.o. zav. - dotsent D.K.Grechishkin) Chernovitskogo meditsinskogo instituta
(PROSTATE GLAND--TUMORS) (PENIS--CANCER)

FOKIN, F.F., inzh.; BESPALOV, P.M., inzh.; RODIONOV, G.A., inzh.;
VERIGIN, N.N., prof.; KUDRYAVTSEV, G.N., inzh.;
MAR'YANSKIY, L.P., red.

[Technical conditions for planning and carrying out hydraulic engineering operations. Open and subsurface drainage of foundation pits of hydraulic structures] Tekhnicheskiye usloviya na proektirovaniye i proizvodstvo gidrotekhnicheskikh rabot. Otkrytyi i gruntovyi vodootliv kotlovanov gidrotekhnicheskikh sooruzhenii. Moskva, Gosenergoizdat, 1962. 101 p. (MIRA 17:9)

1. Akademiya stroitel'stva i arkhitektury SSSR. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrologii.

x
RODIONOV, G.A.

Efficient methods for the determination of the vertical component
vector for dislocation points located in the roof of steeply
pitching collieris. [Trudy] VNIMI no.28:130-147 '54. (MLRA 8:2)
(Mine surveying)

1955, No. 8.

"Rational Method of Determining the Vertical Vector Component of the Displacement Point Located in the Roof of a Steep Mine," Issled. po Vopr. Gorn. i Marksheyd. Dela, No 28, 1955, pp. 146-147

The usual trigonometric solution of this problem is found unsatisfactory and a differential method for determining the vertical vector component of dislocation is suggested. (RZhAstr, No 8, 1955) SO: Sum. No. 713, 9 Nov 55

LIPETS, M. Ye.; RODIONOV, G. A. (Chernovtsy)

Leukemic disorders of the skin in childhood. Arkh. pat. no.8:
71-73 '61. (MIRA 15:4)

1. Iz Chernovitskoy oblastnoy detskoy bol'nitsy (nauchnyy rukovoditel' - dotsent P. N. Gudzenko, glavnyy vrach M. V. Popova) i kafedry patologicheskoy anatomii (zav. - prof. N. M. Shinkerman) Chernovitskogo meditsinskogo instituta (dir. - dotsent M. M. Kovalev)

(LEUKEMIA) (SKIN--DISEASES)

RODIONOV, G.A.

~~RODIONOV, G.A.~~

Measuring horizontal displacements on a vertical section. Trudy
VNIMI no.26:138-149 52. (MLRA 8:3)
(Mine surveying)

KOROL', S.A.; RODIONOV, G.A.

Data of a histomorphological study of the liver in rats of various ages under the combined effect of carbon tetrachloride and hepatocytotoxic mitochondrial serum. Pat. fiziol. i eksp. terap. 9 no.2: 54-59 Mr-Apr '65. (MIRA 18:5)

1. Laboratorii immunologii (zav. - prof. P.D. Marchuk) i patomorfologii (nauchnyy rukovoditel' raboty - prof. M.K. Dal') Instituta gei ontologii i eksperimental'noy patologii (dir. - chlen-korrespondent AMN SSSR prof. D.F. Chebotarev) AMN SSSR, Kiyev.

GINZBURG, A.I.; GORZHEVSKAYA, S.A.; YERCFEYEVA, Ye.A.; SIDORENKO, G.A.;
MALYSHEV, I.I., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;
KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L., red.; SIMANENKOV, I.V.,
red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; NEMANOVA, G.F.,
red.izd-va; BYKOVA, V.V., tekhn.red.

[Titanates, tantalates, and niobates] Titano-tantalo-niobaty.
Moskva. Gos. nauchno-tekhn.izd-vo lit-ry po geol.i okhrane nedr.
Part 1. 1960. 166 p. (Geologiya mestorozhdenii redkikh elementov,
no.10). (MIRA 14:6)

(Titanates)

(Tantalates)

(Niobates)

DUBOVIK, M.M.; RODIONOV, G.G.

Methodology of searching for mica. Razved. i okhr.
nedr 28 no.10:17-20 0 '62. (MIRA 15:11)

1. Ministerstvo geologii i okhrany nedr SSSR (for Dubovik).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo
syr'ya (for Rodionov).

(Mica)
(Prospecting)

SHVEY, Igor' Vladimirovich; GINZBURG, A.I., glavnyy red.; POLYAKOV, M.V.,
zamestitel' glavnogo red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M.,
red.; RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, P.A.,
red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNOSVITOV,
Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.;
EYGELES, M.A., red.; ENTIN, M.L., red. izd-va; BYKOVA, V.V., tekhn. red.

[Basic geochemical problems of rare earth elements and yttrium in
endogenic processes] Osnovnye voprosy geokhimii redkozemel'nykh
elementov i ittrii v endogennykh protsessakh. Moskva, Gos. nauchn.-
tekhn. izd-vo lit-ry, po geologii i okhrane neдр, 1962. 105 p.
(Geologia mestorozhdenii redkikh elementov, no. 15). (MIRA 15:11)
(Rare earth metals) (Yttrium)

ZABOLOTNAYA, N.P.; NOVIKOVA, M.I.; SHATSKAYA, V.T.; GINZBURG, A.I.,
glavnyy red.; POLYAKOV, M.V., zam. glavnogo red.; APEL'TSIN,
F.R., red.; GRIGOR'YEV, V.M., red.; RODIONOV, G.G., red.;
TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A.,
red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.;
SHCHERBINA, V.V., red.; EYGELES, M.A., red.; KOLOSHINA, T.V.,
red. izd-va; BYKOVA, V.V., tekhn. red.

[Tungsten-molybdenum-tin-beryllium deposits and their formation].
Vol'fram-molibden-olovo-berillievye mestorozhdeniia i uslovia
ikh obrazovaniia. Moskva, Gosgeoltekhizdat, 1962. 94 p. (Geo-
logiia mestorozhdenii redkikh elementov, no.18).

(MIRA 16:4)

(Metals, Rare and minor)

SHEYNMANN, Yu.M.; APEL'TSIN, F.R.; NECHAYEVA, Ye.A.; GINZBURG, A.I., red.;
MALYSHEV, I.I., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;
KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V.,
red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; ROZHKOVA, L.G.,
red.izd-va; BYKOVA, V.V., tekhn.red.

[Alkaline intrusions, their distribution, and the mineralization
associated with them] Shchelochnye intruzii, ikh razmeshchenie i
sviazannaia s nimi mineralizatsiia. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po geol.i okhrane nedr, 1961. 176 p. (Geologiya
mestorozhdenii redkikh elementov, no.12/13). (MIRA 15:8)
(Rocks, Igneous) (Ore deposits)

TERENT'YEVA, K.F.; GINZBURG, A.I., glavnyy red.; MAIYSHEV, I.I., red.;
RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, F.A., red.;
FACUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L.,
red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.; EYGELES, M.A.,
red.; ROZHKOVA, L.G., red.izd-va; GUROVA, O.A., tekhn.red.

[Rare elements in bauxites] Redkie elementy v boksitakh. Moskva,
Gos.nauchn-tekhn. izd-vo lit-ry po geol.i okhr.nedr, 1959. 47 p.
(Geologiya mestorozhdenii redkikh elementov, no.6). (MIRA 13:12)
(Metals, Rare and minor) (Bauxite)

GINZBURG, A.I.; RODIONOV, G.G.

Criteria for prospecting for and evaluating rare-metal pegmatites
as proposed by K. A. Vlasov. Sov. geol. 4 no.3:127-132 Mr '61.
(MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo
syr'ya.

(Pegamites)

(Metals, Rare and minor)

RODIONOV, G.G.; ROHENSON, B.M.; BRITAYEV, M.D.; KREYTER, V.M., glavnyy red.;
SHATALOV, Ye.T., zastavitel' glavnogo red.; YEROFYEV, B.N., red.;
ZHENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.;
SMIRNOV, V.I., red.; KHRUSHCHEV, N.A., red.; YAKZHIN, A.A., red.;
MARKOV, P.N., red.; OVCHINNIKOVA, S.V., red. izd-va; AVERKIYEVA,
T.A., tekhn. red.

[Prospecting for mica deposits] Razvedka mestorozhdenii sliudy.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane neдр.
1957. 56 p. (Metodicheskie ukazaniya po proizvodstvu geologo-
razvedochnykh rabot, no.4). (MIRA 11:1)

(Mica ores) (Prospecting)

SHCHERBINA, V.V.; GINZBURG, A.I., red. vypuska; MALYSHEV, I.I., red.;
POLYAKOV, P.A., red.; RODIONOV, G.G., red.; STEPANOV, I.S., red.;
TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A.,
red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.
EYGELES, M.A., red.; ROZHKOVA, L.G., red. izd-va; IYERUSALIMSKAYA,
Ye.S., tekhn. red.

[Geology of rare metal deposits] Geologiya mestorozhdenii
redkikh elementov. No. 8 [Geochemical characteristics of scandium
and types of its deposits.] Osobennosti geokhimii skandii i
tipy ego mestorozhdenii. Moskva, Gos.nauch.-tekhn.izd-vo lit-ry
po geol. i okhr. nedr, 1960, 56p. (Geologiya mestorozhdenii
redkikh elementov, no. 8). (MIRA 13:11)

(Scandium)

GINZBURG, A.I., RODIONOV, G.G.

Subsurface formations of granitic pegmatites. Geol. rud. mesto-
rozh. no.1:45-54 Ja-F '60. (MIRA 13:7)

1. Vsesoyuznyy institut mineral'nogo syr'ya, Moskva.
(Pegmatites)

RODIONOV, G. G., Master Geolog-Mineralog Sci— (USSR) "Types of mica-bearing perma-
tite bodies and their industrial value." Moscow, 1957, 20 pp (Min Geology & Mine-
rals. All-Union Sci-Res Inst of Mineral Deposits), 150 copies.
(KL, NO 40, 1957, p.91)

RODIONOV, Grigoriy Grigor'yevich; ROMENSON, B.M., red.; VERSTAK, G.V.,
red.izd-va; BYKOVA, V.V., tekhn.red.

[Types of mica-bearing pegmatite bodies and their industrial
characteristics] Tipy sliudonosnykh pegmatitovykh tel i ikh promy-
shlennaya otsenka. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po
geol. i okhrane neдр, 1959. 82 p. (Moscow. Vsesoiuznyi nauchno-
issledovatel'skii institut mineral'nogo syr'ia. Trudy, no.4).
(MIRA 13:3)

(Mica) (Pegmatites)

RODIONOV, G.G.

Mechanism of formation of cavities filled with pegmatites and the structure of pegmatite deposits. Geol. mest. red. elem. no.7:35-57 '60.

(MIRA 13:12)

(Pegmatites)

GINZBURG, A.I.; NECHAYEVA, Ye.A.; LAVRENNY, Yu.B.; POZHARITSKAYA, L.K.;
MALYSHEV, I.I.,red.; RODIONOV, G.G.,red.; FAGUTOV, F.P.,red.;
KHRUSHCHOV, N.A.,red.; CHERNOSVITOV, Yu.L.,red.; SEMANENKOV, I.V.,
red.; SHCHERBINA, V.V.,red.; EYGELES, M.A.,red.; OVCHINNIKOVA, S.V.,
red.; AVYERKIYEVA, T.A.,tekhn.red.

[Rare metal carbonatites] Redkometal'nye karbonatity. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhr.nedr, 1958.
126 p. (Geologiya mestorozhdenii redkikh elementov, no.1)
(MIRA 12:2)

(Carbonates (Geology))

BLOKH, A.M.; KOCHENOV, A.V.; GINZBURG, A.I., glavnyy red.; APEL'TSIN, F.R., red.;
GRIGOR'YEV, V.M., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;
CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V.,
red.; EYGELES, M.A., red.

[Impurity elements in bone phosphate of fossil fishes.] Elementy-
primesi v kostnom fosfate iskopaemykh ryb. Moskva, Nedra, 1964.
106 p. (Geologiya mestorozhdenii redkikh elementov, no.24).
(MIRA 19:1)

KUDRIN, V.S.; KUDRINA, M.A.; SHURIGA, T.N.; GINZBURG, A.I., glavnyy red.;
APEL'TSIN, F.R., zamestitel' glavnogo redaktora; CHERNYSHEVA,
L.V., red.; BEUS, A.A., red.; GREKULOVA, L.A., red.;
GRIGOR'YEV, V.M., red.; ZABOLOTNAYA, N.P., red.; MATIAS, V.V.,
red.; POKALOV, V.T., red.; RODIONOV, G.G., red.; STEPANOV, I.S.,
red.; CHERNOSVITOV, Yu.I., red.; SHIMANENKOV, I.V., red.

[Rare-metal metasomatic formations associated with subalkaline
granitoids.] Redkometal'nye metasomaticheskie obrazovaniya,
svyazannye s subshchelochnymi granitoidami. Moskva, Nedra,
1965. 145 p. (Geologiya mestorozhdenii redkikh elementov,
no.25) (MIRA 18:8)

GORZHEVSKAYA, Susanna Aleksandrovna; SIDORENKO, Galina Aleksandrovna;
GINZBURG, A.I., glavnyy red.; POLYAKOV, M.V., zamestitel' glavnogo
red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M., red.; RODIONOV, G.G.,
red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P.,
red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA,
V.V., red.; EYGELES, M.A., red.

[Titano-tantalo-niobates. Part 2.] Titano-tantalo-niobaty.
Moskva, Nedra. Pt.2. 1964. 115p. (Geologiya mestorozhdenii
redkikh elementov, no.23) (MIRA 18:1)

RODICHOV, G.G.; DAVID-NEB, Y.V.

Some geochemical characteristics of pegmatite formation in various
formations. Geol. mest. red. elem. no.22: 115-129 '62
(MIRA 17:7)

RODIONOV, G.G.

Types of pegmatite belts and their characteristics. Geol. nest.
red. elem. no. 22360-74 '64 (MIRA 1:7)

Classification of pegmatites and characteristics of pegmatite
formation. Ibid. 82-114

STAVROV, O.D.; GINZBURG, A.I., glavnyy red.; POLYAKOV, M.V., zam. glav-
nogo red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M., red.; RODIO-
NOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.;
FAGUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNO SVITOV, Yu.L.,
red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.; EYGELES,
M.A., red.; FEDOTOVA, A.I., red. izd-va; IYERUSALIMSKAYA, Ye., tekhn.
red.

[Basic characteristics of lithium, rubidium, cesium in the process
of the formation granite intrusives and the pegmatites connected
with them.] Osnovnye cherty geokhimii litia, rubidii, tseziia v
protsesse stanovleniia granitnykh intruzivov i sviazannykh s nimi
pegmatitov. Moskva, Gosgeoltekhizdat, 1963. 140 p. (Geologia mes-
torozhdenii redkikh elementov, no.21). (MIRA 17:2)

RODIONOV, G. G.

The So-Called Apogrophic Pegmatites

The author presents the results of an investigation of unusual structures (often observed in micaceous pegmatites), described by D.S. Korzhinskiy under the name of apogrophic structures (Slyudy SSSR (Micas of the USSR), 1937), by N. V. Petrovskaya ("Gigantico-Migmatitic Type of Pegmatites of the Mamsk-Vitimsk Mica Bearing Region," ONTI-NKTP SSSR, Moscow, 1937) under the name of "transitional structures", and by V. D. Nikitin (Zap. Vses. Mineralog. o-va, No. 4, 1950; Zap. Leningr. Gorn. in-ta, 1952), under the name of segregational structures. The author describes the processes governing the substitution of microcline by quartz with the formation of typical apogrophic structures. (RZhGeol, No. 5, 1955) Tr. in-ta po Proyektivaniyu i Nauch.-Issled. Rabotam v Slyudanoy Prom-Sti, No. 1, 1954, 73-85.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

ACCESSION NR: AT4019028

of neutrons. The different role (and, hence, danger) of the neutron in the reactor and in the shielding is noted. Of the possible applications of conjugate functions to the theory of perturbations, the authors single out two for special consideration. In the first place, a knowledge of the conjugate function makes it possible to select the most rational positioning of the materials in the shielding. In the second place, it makes it possible to derive the variations of the values of interest to the specialist (dosages, thermal emissions, etc.), connected with certain changes in the structure and planes of interaction, and also with effects not previously considered, without the repetition of unwieldy computations, but merely through the application of the perturbation theory ratio. From this point of view, the authors consider and derive the formulas of this theory and certain functions in the theory of shielding. The use of the method of consecutive approximations for the determination of the optimal disposition of shielding materials is considered, as well as the efficiency function of the shielding materials themselves. The article concludes with a study of certain effects in shielding made of iron (and of iron with 1% by weight of boron), 20 cm thick, in the light of the theory of perturbations. "The authors express their gratitude to A. I. Leypunskiy, V. Ya. Pupko and E. Ye. Petrov for their valuable counsel and commentary." Orig. art. has: 52 formulas, 9 figures and 4 tables.

ASSOCIATION: none
Card 2/3

ACCESSION NR: AT4019028

SUBMITTED: 14Aug63

SUB CODE: NS, MM

DATE ACQ: 27Feb64

NO REF SOV: 005

ENCL: 00

OTHER: 002

Card

3/3

EYGENSON, M.S.; RODIONOV, G.N.

New method for forecasting the extent and the date of the maximum spottedness of an eleven-year solar activity cycle and the first check of this method. Astron.sbor no.3/4:179-181 '60.
(MIRA 14:11)

1. L'vovskiy gosudarstvennyy universitet.
(Sunspots)

44251

S/C35/62/000/012/011/064

A001/A101

3.1800

AUTHORS: Eygenson, M. S., Rodionov, G. N.

TITLE: The solar nature of asymmetry of equinoctial maxima of geomagnetic disturbance

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 12, 1962, 58, abstract 12A418 ("Tsirkulyar. Astron. observ. L'vovsk. un-ta", 1960, no. 35 - 36, 78 - 86)

TEXT: In order to confirm the known explanation of equinoctial disturbance maxima by the proximity of the Earth's projection on the solar disk to geoactive regions during these periods, the authors investigated the correlation of the geomagnetic disturbance number in autumn with the area of sunspots in the northern hemisphere of the Sun and of the number of disturbances in springtime with the sunspot area in the southern hemisphere. Rather low positive correlation coefficients (0.39 - 0.40) were thereby obtained. Then were investigated the numbers of strong magnetic storms with sunspot areas in favorable hemispheres (from the viewpoint of Korti's effect). In this case, correlation coefficients

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The solar nature of asymmetry of...

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A001/A101

turned out essentially positive (0.63 - 0.55). On this basis, the authors hold as proven that equinoctial disturbance maxima can be explained by the Kortl effect; however, only low correlation coefficients between the sunspot area in unfavorable hemispheres and the number of magnetic disturbances, with respect to coefficients calculated by the authors, would represent the decisive proof of this statement. There are 6 references. X

A. 01'

[Abstracter's note: Complete translation]

Card 2/2

S/733/60/000/003-4/003/012
1046/1246

AUTHOR: Rodionov, G.N.

TITLE: Active longitudes on the sun.

SOURCE: Lvov. Universitet. Astronomicheskiiy sbornik, no. 3-4, 1960, 31-34

TEXT: The average daily distribution of the total area of sun spots in the circle whose center coincides with the center of the solar disc and whose radius is 30° , as taken from Soviet solar-activity catalogs for 1948-1954, published in Trudy GAO, and from the bulletins of Gornaya stantsiya Pulkovskoy observatorii (Mountain Station of the Pulkovo Observatory) for 1955-1957, points to the following: no regularity is observed for conditional rotation periods of 26^d and 27^d .3; four active longitudinal regions spaced at 90° to one another are observed for conditional rotation periods of 27^d ; three active longitudinal regions spaced at 120° are observed for conditional rotation periods of 28^d . Same analysis carried out for a 27^d rotation period according to Tsirkulyary Tashkentskoy Astronomicheskoy observatorii, no.1 to no. 214 (1932 to 1948), detects two active longitudinal regions spaced at 180° . Analysis of the differential

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Active longitudes on the sun

index (difference in the total daily sun spot areas in the central circle for two consecutive days) for 1948-1957 confirms the existence of four active longitudinal regions spaced at 90° , and shows that the maximum of the positive daily differences comes about 3-4 days ahead of the maximum of negative differences. There are 6 figures. ✓

ASSOCIATION: L'vovskiy gosuniversitet (Lvov State University)

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S/733/60/000/003-4/011/012
1046/1246

AUTHORS:

Eygenson, M.S. and Rodionov, G.N.

TITLE:

New procedure for the prognosis of the magnitude and the date of occurrence of the maximum of the 11-year cycle of solar activity and its first experimental verification.

SOURCE:

Lvov. Universitet. Astronomicheskiy sbornik, no. 3-4, 1960, 179-181

TEXT: The correlation between $\bar{W}_{\max}$ and $\bar{\varphi}_{\min}$ ($\bar{\varphi}_{\min}$ being the average heliographic latitude of the first high-latitude groups of spots that appear 1/2 to 1 1/2 years before the formal commencement of the 11-year cycle) published in 1954 (Ref.3:M.S.Eygenson and T.L.Mandrykina, Astr. sb., No.2, Lvov, 1955) gave excellent agreement between the predicted Wolf number ($W_{\max}^{\text{pred}} \sim 200$ from the first one-day group at $\varphi = +52$ observed on August 13, 1953) and the actual figure measured in 1958 at the Gornaya stantsiya GAO AN SSSR ($W_{1958} = 198$). Rodionov (Ref.5: G.M.Rodionov. Tsirk. LAO, No. 29, 1955), having established a definite phase shift between the maxima of the 11-year prominence cycle in the 40-50° and 50-60° zones and the 11-year sun spot cycle, predicted in 1957

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New procedure for the prognosis...

(Ref.4: G.N.Rodionov. Tsirk. Astrosveta, No. 178, 1958) that the maximum of the No. 19 cycle would be attained in the second quarter of 1958; in fact, $t_{\max}$ for the No. 19 cycle was 1958.5. The satisfactory results point to the scientific soundness of these procedures. ✓

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Card 2/2

RODIONOV, G.N.

Active longitudes on the sun. Astron.sbor no.3/4:31-34 '60.
(MIRA 14:11)

1. L'vovskiy gosudarstvennyy universitet.
(Sun)

PODOLNY, S.Y., PODOLNY, S.YE.

Sun-Prominences

Results of observations of prominences in 1947-1948. Vch. zap. L'vov, un.
15 No. 4, 1949.

Monthly List of Russian Accessions, Library of Congress, August 1952, UNCLASSIFIED

RODIONOV, G.N.

Approximate maximum of the current solar cycle No.19. Astron.
tsir. no.128:15-16 Mr '57. (MLRA 10:9)

1. L'vovskaya Astronomicheskaya Observatoriya.
(Sunspots)

EYGENSON, M.S.; RODIONOV, G.N.

Solar nature of the asymmetry of equinoctial maxima of geomagnetic disturbances. TSir. Astron. obser. L'viv. un. 35/36:78-86 '60.

(MIRA 14:4)

(Magnetic storms)

3,9110

S/169/62/000/005/089/093
D228/D307

AUTHORS: Eygenson, M. S. and Rodionov, G. N.

TITLE: Solar nature of the asymmetry of the equinoctial maxima of geomagnetic disturbances

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 30, abstract 5G222 (Tsirkulyar. Astron. observ. L'vovsk. un-ta, no. 35-36, 1960, 78-86)

TEXT: Solar corpuscular radiation emanates from active regions as approximately radial flows; the centers of the sun's active regions shift during the 11-year cycle; on account of the yearly change in the sun's declination the conditions of the earth's heliocorpuscular irradiation vary during the year. This creates the maximum magnetic field disturbances in periods of equinoxes and in years when the solar activity is at a maximum. The author examines different types of solar and geomagnetic asymmetries, which might be expected in the absence of the masking effects and enumerates certain effects and the observed deviations from the theoretical

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Solar nature of ...

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scheme of corpuscular radiation. It is shown that there is a correspondence between the summary area of sunspots for the northern and southern solar hemispheres and the numbers of strong geomagnetic storms in spring and autumn. [Abstracter's note: Complete translation.]

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